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(54) Title: TWO-PHASE METHOD FOR THE SYNTHESIS OF SELECTED PYRAZOLOPYRIMIDINES

(57) Abstract: An improved method of making a substituted pyrazolopyrimidine. The method comprises reacting a aminopyrazole compound or a salt thereof with a substituted 1-oxo-2-propenyl-arene(-heterocycle) or a salt thereof under acidic conditions in a reaction medium including a two-phase mixture of an aqueous solution and a water-immiscible organic liquid. Specific substituted pyrazolopyrimidines include N-[3-(3-cyanopyrazolo[1,5-a]pyrimidin-7-yl)phenyl]-N-ethylacetamide and N-methyl-N-(3-[3-[2-thienylcarbonyl]-pyrazolo[1, 5-a]-pyrimidin-7-yl]phenyl)acetamide.